

$$D_{50}=0.00594 V_a^{3/2} (d_{avg})^{1/2} K_1^{3/2}$$

D_{50} = Median riprap size (m)

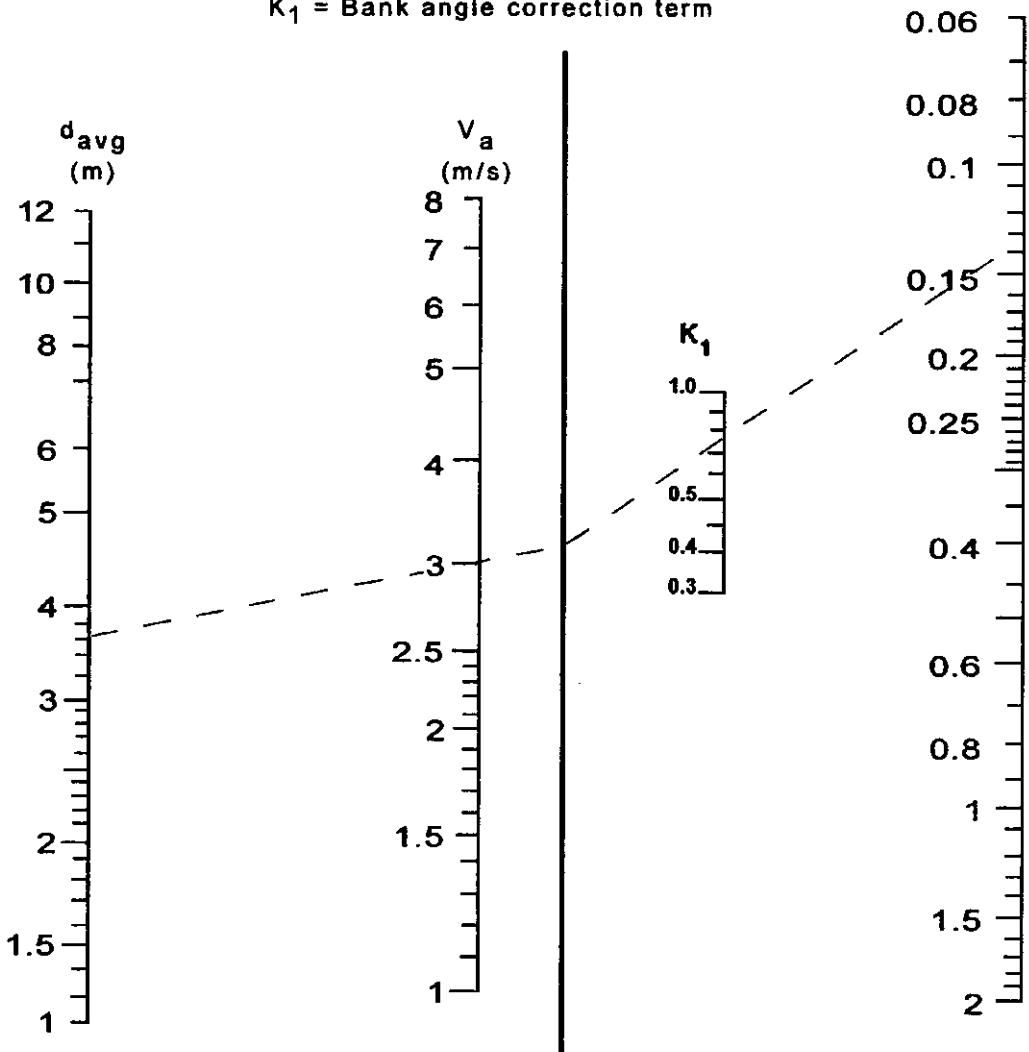
V_a = Average velocity in main channel (m/s)

D_{50}

d_{avg} = Average depth in main channel (m)

(m)

K_1 = Bank angle correction term



Example

Given:

$$V_a=3 \text{ m/s}$$

$$d_{avg}=3.6 \text{ m}$$

$$K_1=0.73$$

Find:

$$D_{50}$$

Solution:

$$D_{50}=0.13 \text{ m}$$

RIPRAP SIZE RELATIONSHIP

(Example 1, Step 7)

Figure 38-6S